



**Instytut
Energetyki**

**INSTITUTE OF POWER ENGINEERING
– NATIONAL RESEARCH INSTITUTE**
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AC 117

CERTIFICATE OF CONFORMITY

No. DZC.522.90.2023.2024

Issue No. 01 of 2024.12.05

Name and address of the certificate holder: RADPOL S.A.
ul. Batorego 14
77-300 Człuchów, Poland

Name of the product: Mechanical cable lugs

Type: ZSSN 36kV

Manufacturer: RADPOL S.A.
ul. Batorego 14
77-300 Człuchów, Poland

Parameters: According to the appendix

Application of the product: Connectors designed to connect power cable conductors in networks with a voltage not exceeding 36 kV.

The product meets requirements of: EN IEC 61238-1-3:2019,
EN IEC 61238-1-3:2019/A11:2019

According to the report made by: Instytut Energetyki - Państwowy Instytut Badawczy

Number of the product evaluation report: DZC.522.90.2023.2024

Period of validity: from 05th of December 2024 until 15th of September 2027

The right to use the certificate of conformity within its validity period applies only to:

- these copies that meet the requirements specified above and have the same characteristics (parameters) as the model / product samples submitted for testing
- certificate holder or his authorized representative

The list of evidenced parameters is included in the appendices to the certificate of conformity.

Number of appendices: 1

THE SYSTEM OF PRODUCT CERTIFICATION PC_1a (Program 1a acc. to PN-EN ISO/IEC 17067:2014-01)
(product parameters confirmed by type test)



pp of the DIRECTOR OF
INSTITUTE OF POWER ENGINEERING
– NATIONAL RESEARCH INSTITUTE

Dariusz Zienkiewicz, M.Sc. Eng

Warsaw, 2024.12.05



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APPENDIX TO THE CERTIFICATE OF CONFORMITY
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LIST OF EVIDENCED PARAMETERS

Name / type	ZSSN 16-50 / 2S	ZSSN 50-150 / 4S	ZSSN 150-240 / 6S
Class - electrical - mechanical		A 1	
Construction / cross-section of Al conductors [mm ²]		re / 16 rnc / 16 ÷ 240	
Initial scatter δ ¹⁾		$\leq 0,30$	
Mean scatter β ²⁾		$\leq 0,30$	
Resistance factor ratio λ ³⁾		$\leq 2,0$	
Change in resistance factor D ⁴⁾		$\leq 0,15$	
Maximum temperature θ_{\max} ⁵⁾		$\leq \theta_{\text{ref}}$	
Permissible tensile force [N]		$\leq 40 \times A$ ⁶⁾ Al	

NOTES:

- 1) ¹⁾ The average value of the resistance factors of six connectors before the first heating cycle.
- 2) ²⁾ The average value of the resistance factors of six connectors calculated from last 11 measurements readings. It specifies if all connectors of given type are characterized by similar changes in resistance during the heat cycles.
- 3) ³⁾ Resistance factor ratio of tested connector during the heat cycle test in relation to the initial resistance factor.
- 4) ⁴⁾ The value specifies the size of the resistance factor change based on last 11 measurements readings.
- 5) ⁵⁾ Temperature of the connector referenced to the temperature of the reference section.
- 6) ⁶⁾ Nominal cross-sectional area.

